1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 1/66

(310) 207-3800

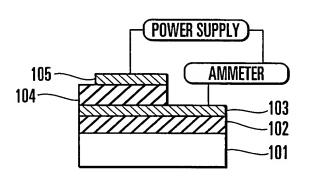


FIG.1A

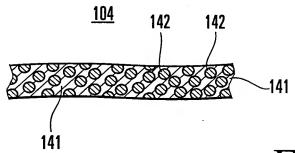


FIG.1B

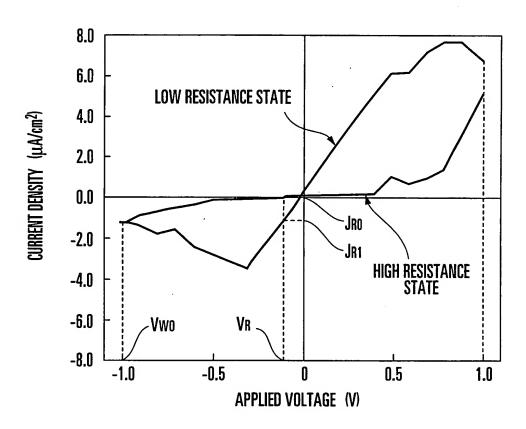


FIG.2

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US Sheet: 2/66

Docket No.: 96790P520

(310) 207-3800

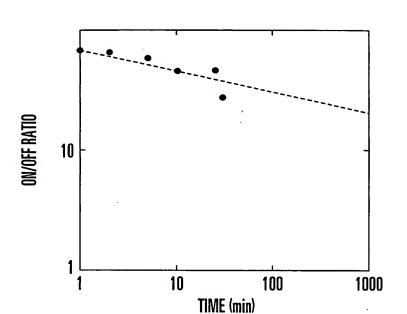
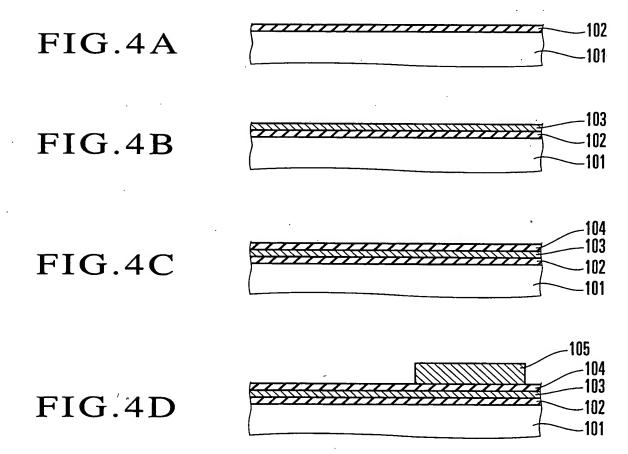


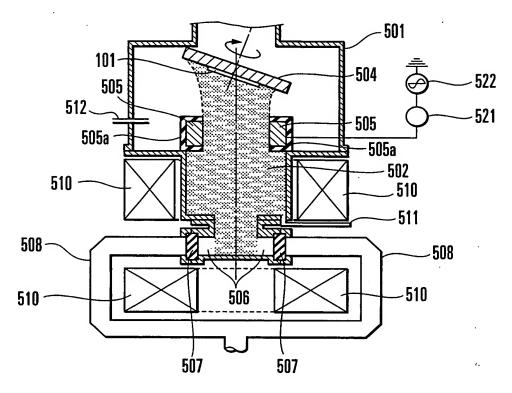
FIG. 3



1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US Sheet: 3/66

Docket No.: 96790P520

(310) 207-3800



F I G. 5

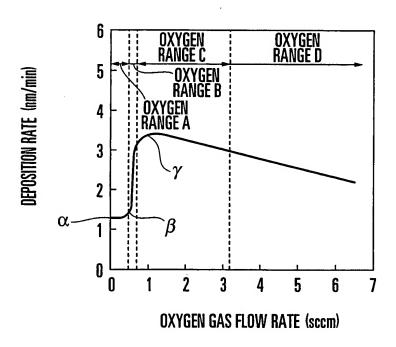


FIG. 6

Title: BISTABLE RESISTANCE VALUE ....
1st Named Inventor: Joshito JIN
Express Mail No.: EV612531356US

Sheet: 4/66

FIG.7A



FIG. 7a

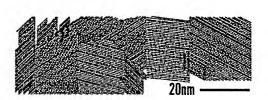


FIG.7B



FIG.7b

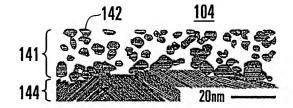


FIG.7C



FIG.7c



Title: BISTABLE RESISTANCE VALUE ....
1st Named Inventor: Joshito JIN
Express Mail No.: EV612531356US

Sheet: 5/66

(310) 207-3800

FIG.7D

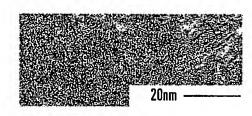
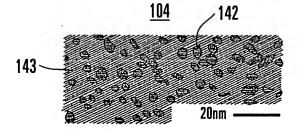
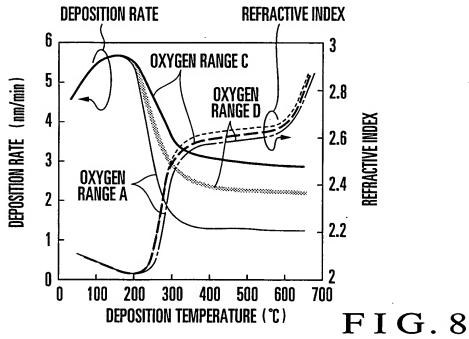
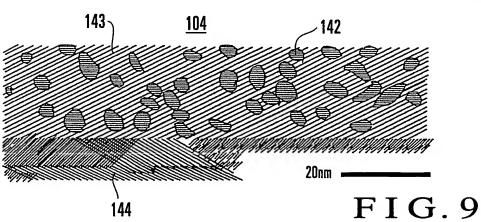


FIG.7d







1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 6/66

(310) 207-3800

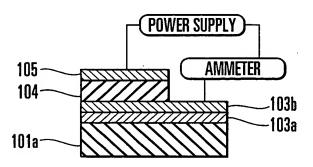


FIG.10A

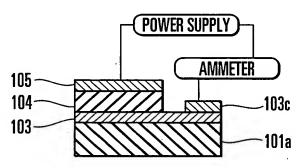


FIG.10B

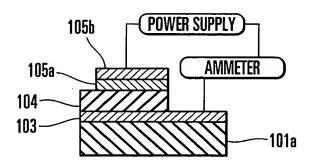


FIG.10C

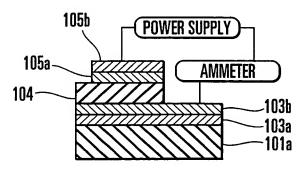
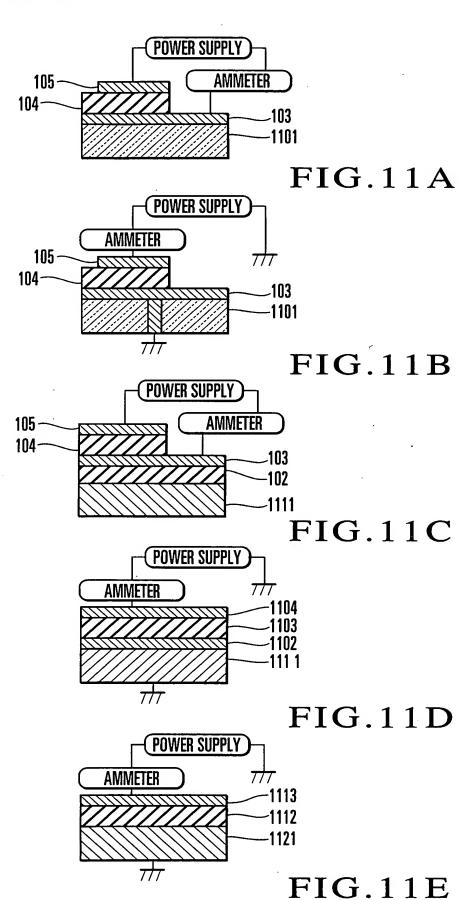


FIG.10D

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 7/66

(310) 207-3800



1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 8/66

(310) 207-3800

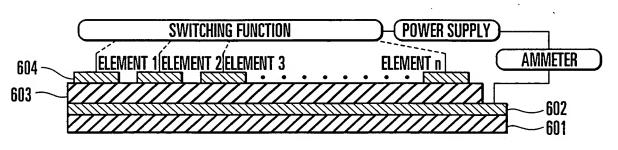


FIG.12A

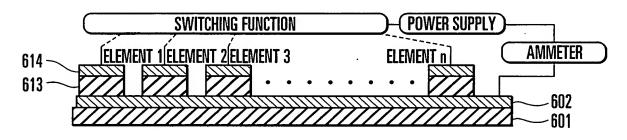


FIG.12B

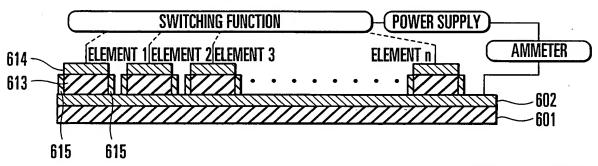


FIG.12C

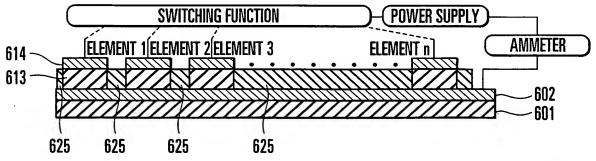


FIG.12D

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE....
1st Named Inventor: Joshito JIN
Express Mail No.: EV612531356US

Sheet: 9/66

(310) 207-3800

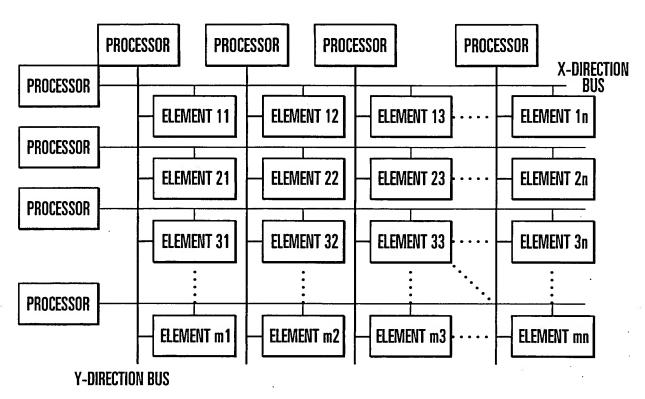


FIG. 13

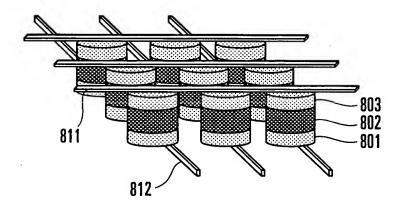


FIG. 14

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US Sheet: 10/66

(310) 207-3800

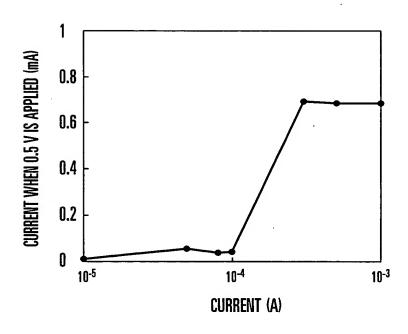


FIG. 15

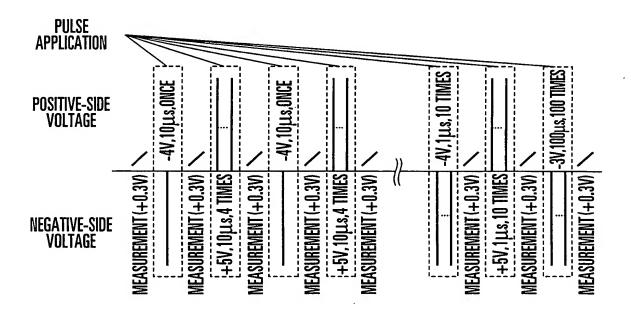


FIG. 16

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 11/66

(310) 207-3800

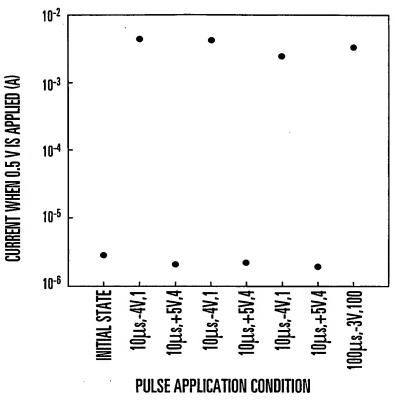


FIG. 17

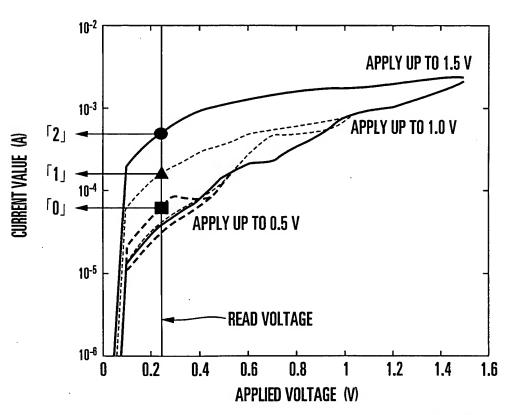


FIG. 18

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US Sheet: 12/66

Docket No.: 96790P520

(310) 207-3800

NUMBER OF PULSES	1	2	3	4	5	
PULSE VOLTAGE (V)	+3	-3	+3	+1.5	+3	
PULSE WIDTH (µsec)	10	10	10	10	10	
STATE	Г <b>1</b> ј	روا	「 <b>2</b> 」	Г <b>1</b> ј	<b>「2</b> 」	
' 🛦 🛦 🛦 🛦						

FIG. 19

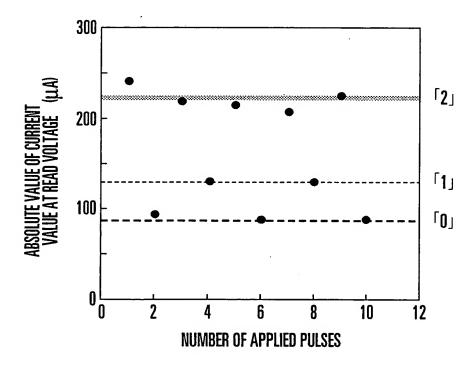


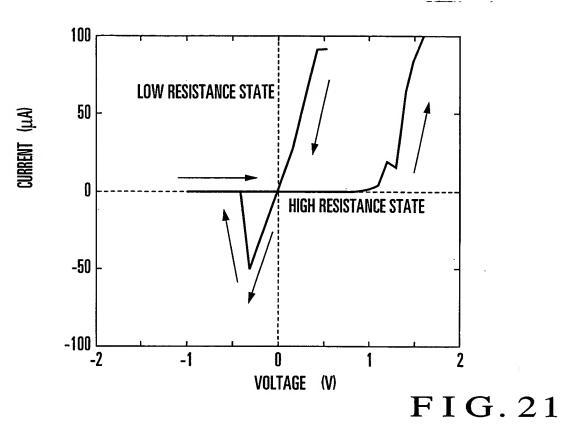
FIG. 20

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE .... 1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US Sheet: 13/66

Docket No.: 96790P520

(310) 207-3800



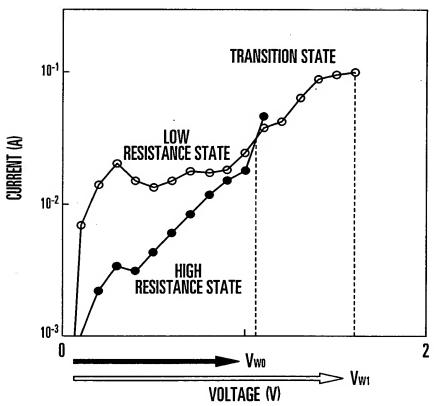


FIG. 22

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Sheet: 14/66

(310) 207-3800

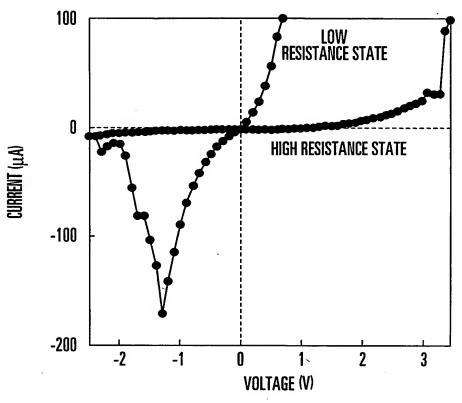


FIG. 23

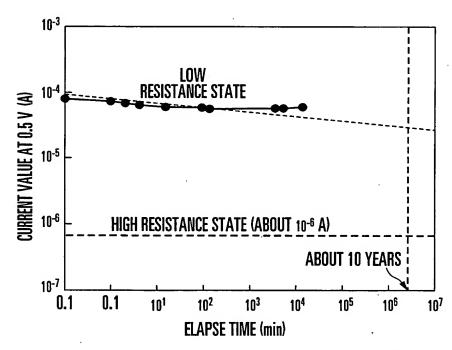


FIG. 24

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Express Mail No.: EV612531356US Sheet: 15/66

(310) 207-3800

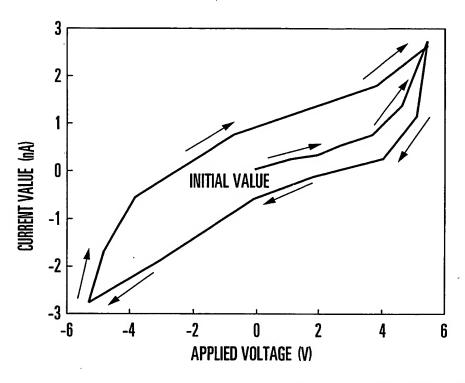


FIG.25A

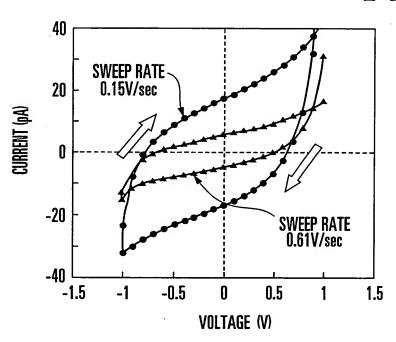


FIG.25B

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE .... 1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US

Sheet: 16/66

Docket No.: 96790P520

(310) 207-3800

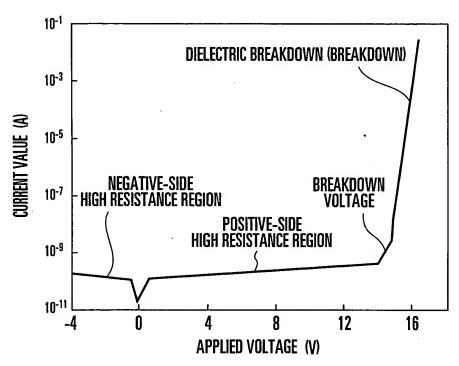


FIG. 26

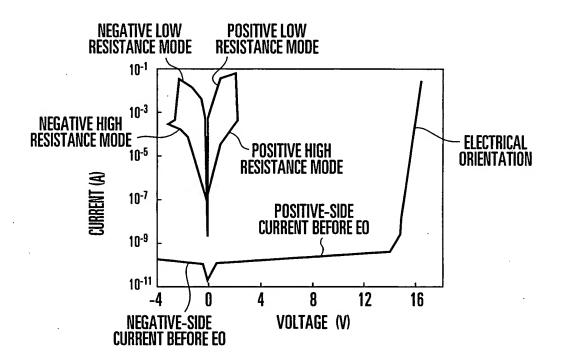
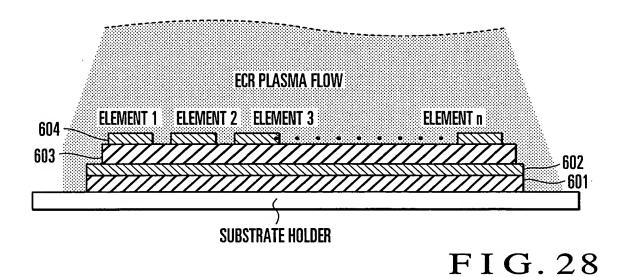


FIG. 27

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE ....
1st Named Inventor: Joshito JIN
Express Mail No.: EV612531356US
Sheet: 17/66

(310) 207-3800



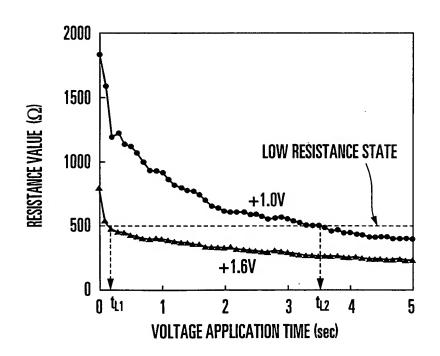


FIG. 29

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 18/66

(310) 207-3800

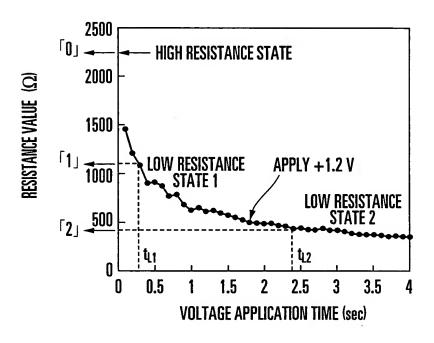


FIG. 30

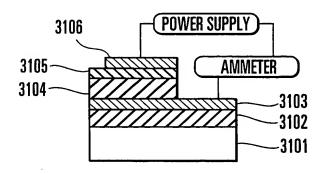


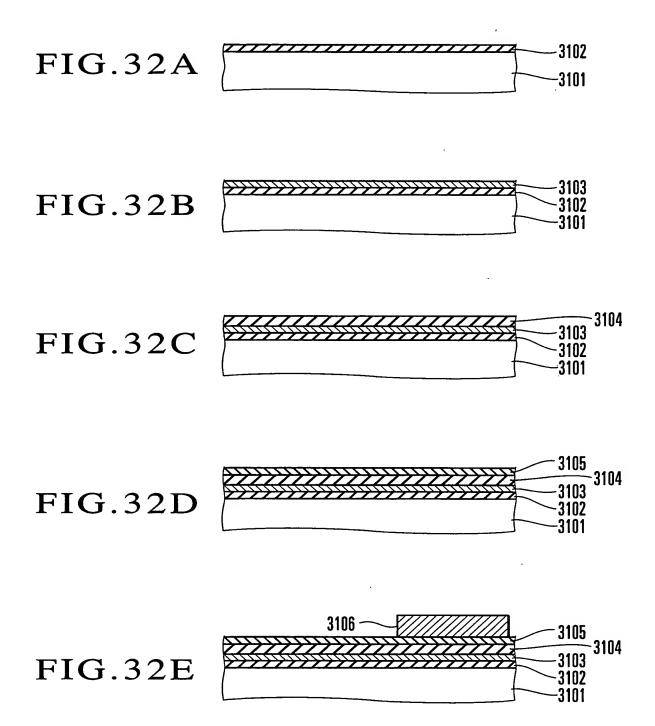
FIG. 31

Sheet: 19/66

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Docket No.: 96790P520

(310) 207-3800



1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 20/66

(310) 207-3800

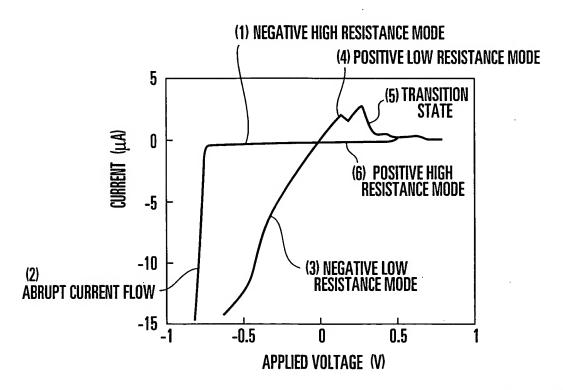


FIG. 33

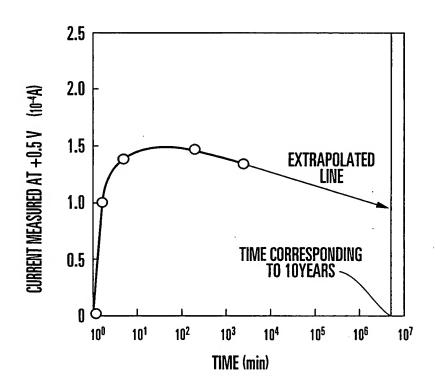


FIG. 34

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US

Docket No.: 96790P520

(310) 207-3800

Sheet: 21/66

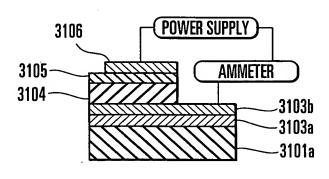


FIG.35A

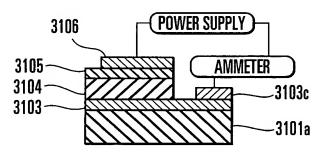


FIG.35B

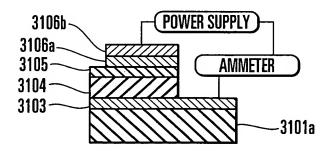


FIG.35C

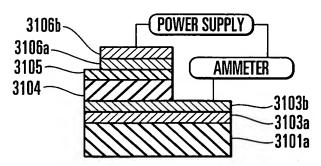


FIG.35D

Blakely, Sokoloff, Taylor & Zafman LLP

Title: BISTABLE RESISTANCE VALUE ....

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 22/66

(310) 207-3800

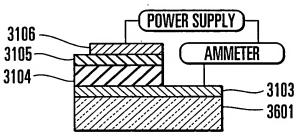


FIG. 36

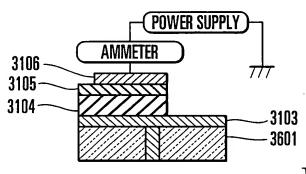


FIG. 37

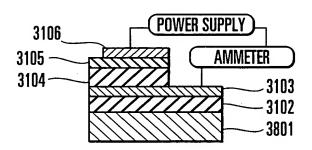


FIG.38A

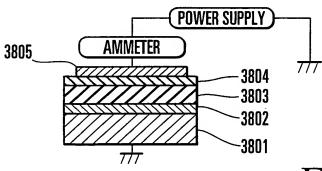
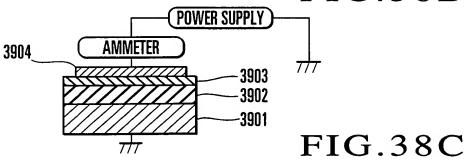


FIG.38B



1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 23/66

(310) 207-3800 .

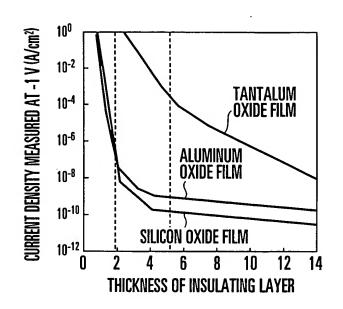


FIG. 39

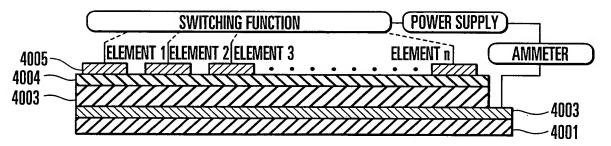


FIG.40A

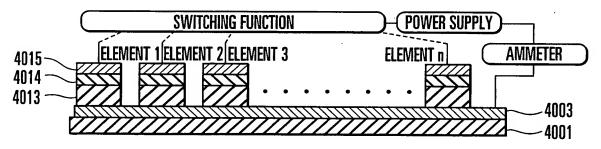
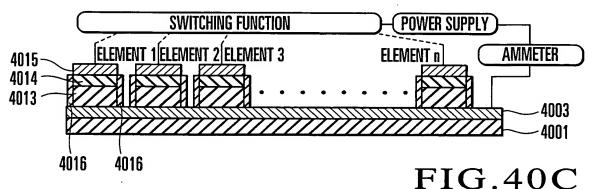


FIG.40B



Blakely, Sokoloff, Taylor & Zafman LLP

Title: BISTABLE RESISTANCE VALUE .... 1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 24/66

(310) 207-3800

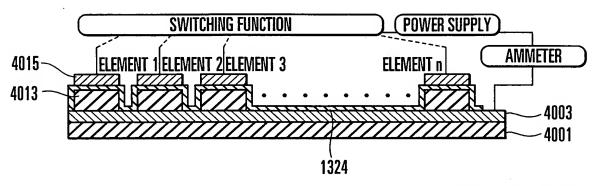
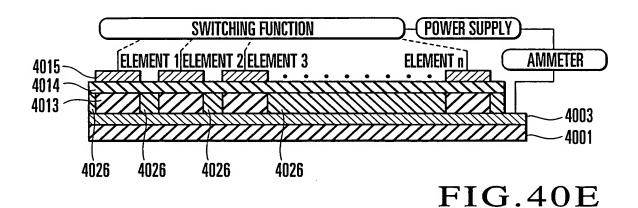


FIG.40D



**LOW RESISTANCE STATE HIGH RESISTANCE STATE** 10-7 10-6 10<sup>-5</sup> **CURRENT (A)** FIG. 41

Sheet: 25/66

(310) 207-3800

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US Docket No.: 96790P520

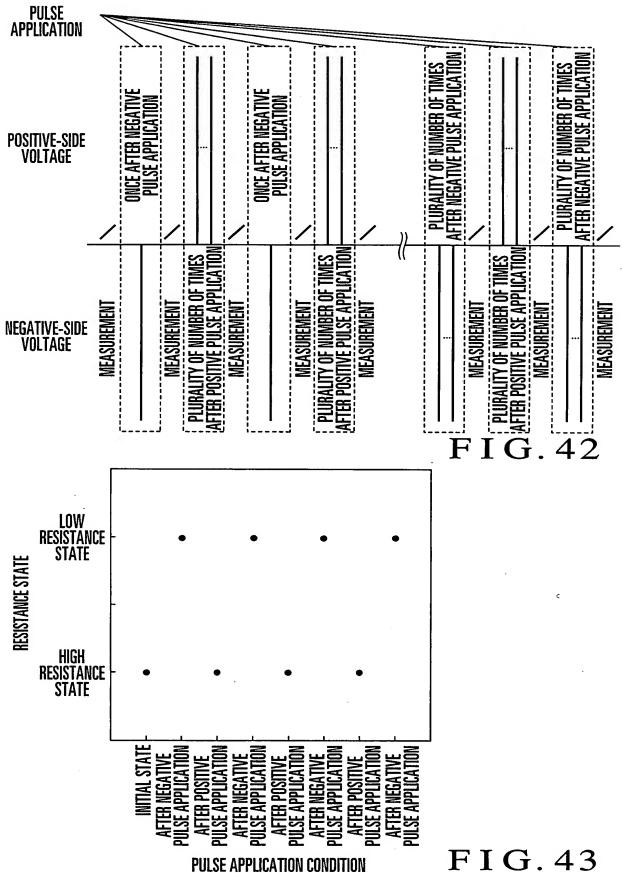


FIG. 43

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 26/66

(310) 207-3800

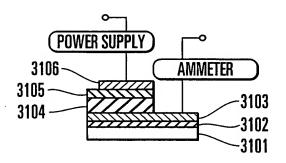


FIG.44A

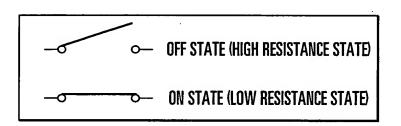


FIG.44B

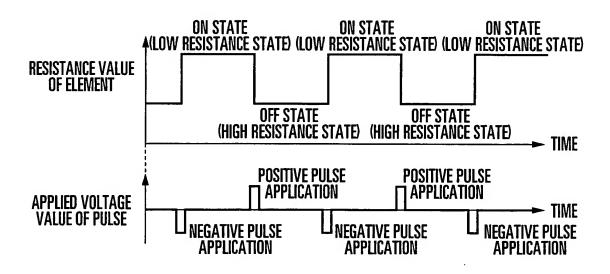


FIG. 45

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US Sheet: 27/66

(310) 207-3800

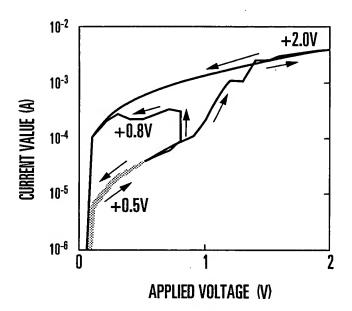


FIG. 46

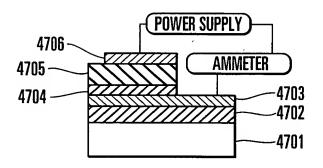
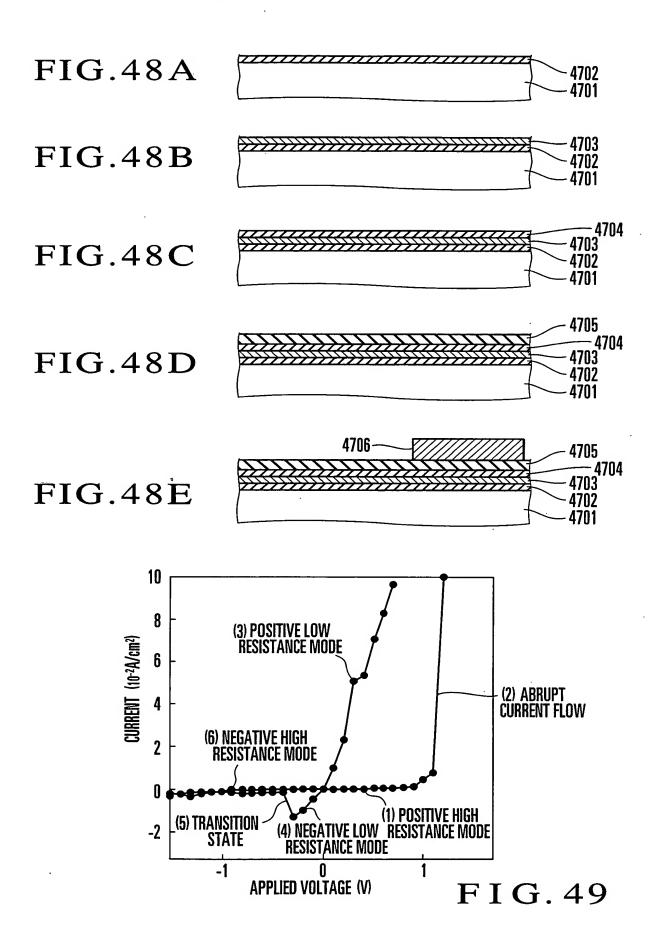


FIG. 47

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 28/66

(310) 207-3800



1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 29/66

(310) 207-3800

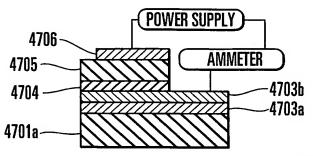


FIG.50A

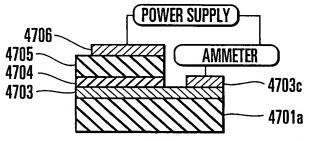


FIG.50B

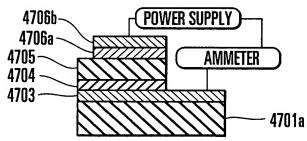


FIG.50C

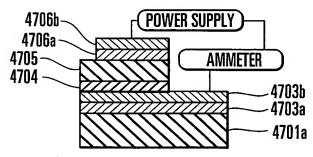
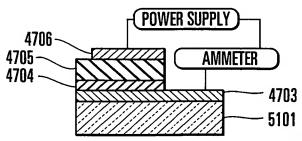


FIG.50D

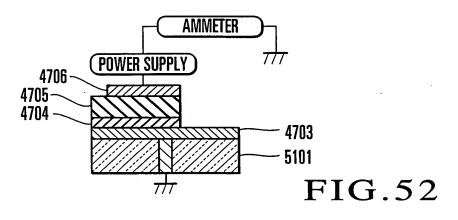


**FIG.51** 

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 30/66

(310) 207-3800



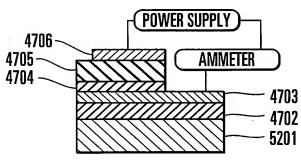


FIG.53A

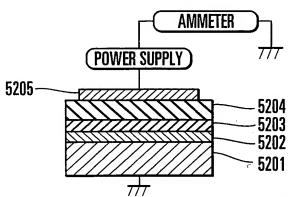
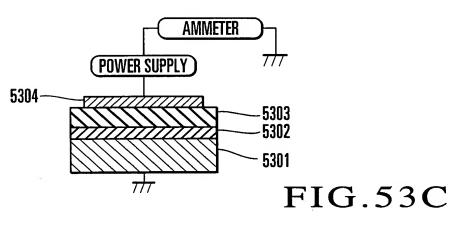


FIG.53B

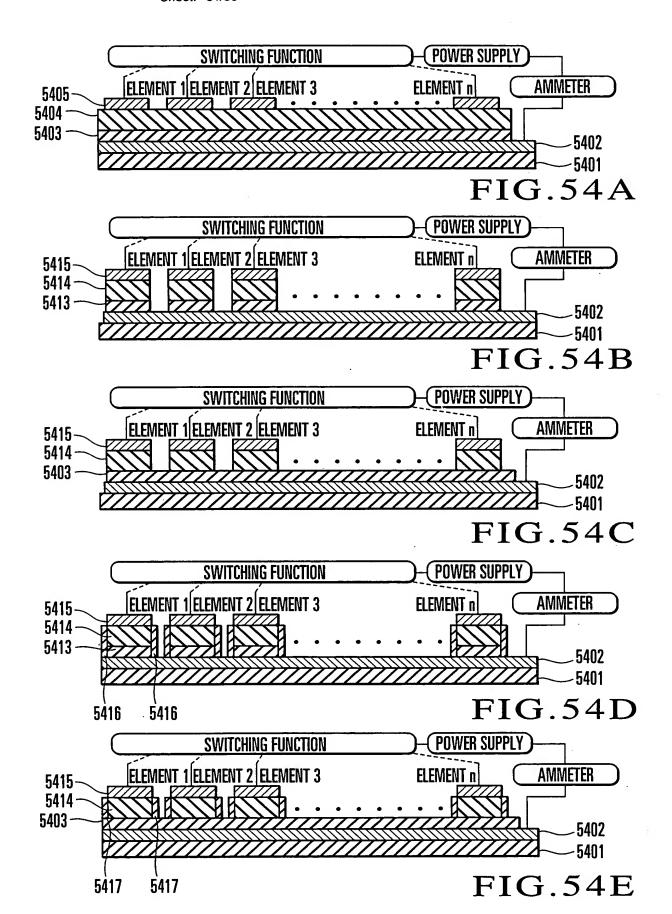


1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 31/66

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(310) 207-3800



1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 32/66

(310) 207-3800

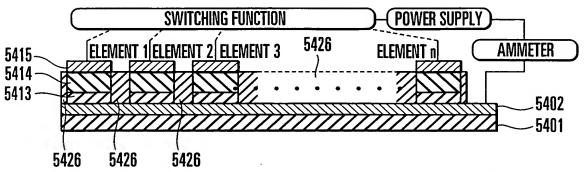
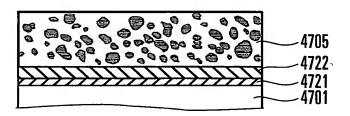


FIG.55



**FIG.56** 

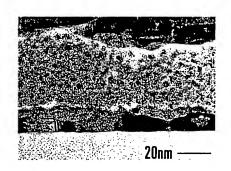
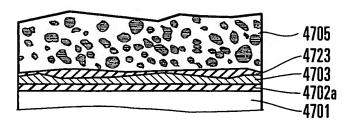


FIG.57



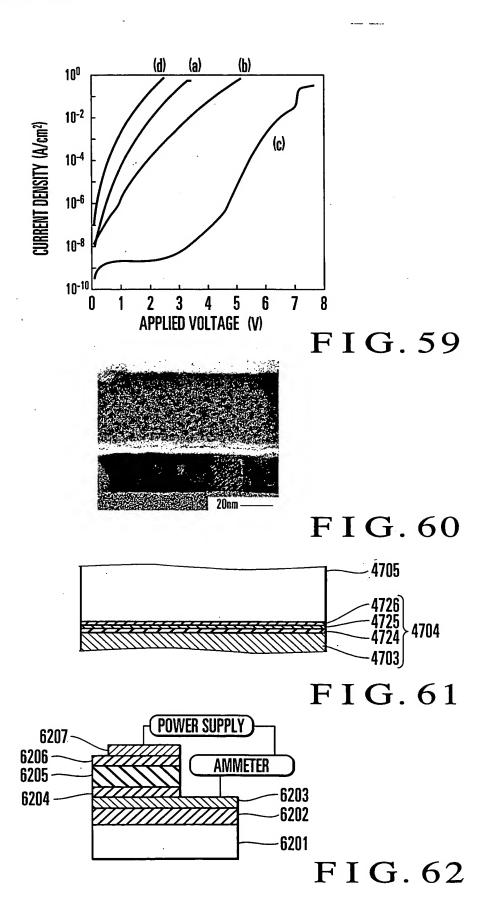
**FIG.58** 

Blakely, Sokoloff, Taylor & Zafman LLP
Title: BISTABLE RESISTANCE VALUE....
1st Named Inventor: Josephia JUNI

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 33/66

(310) 207-3800



1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 34/66

Docket No.: 96790P520

(310) 207-3800

6201

6202 FIG.63A -6201 -6203 FIG.63B 6202 6201 -6204 6203 FIG.63C 6202 6201 6205 -62046203 FIG.63D 6202 6201 6206 6205 -6204FIG.63E 6203 -6202 6201 6206 6207 6205 -6204 FIG.63F 6203 6202

Blakely, Sokoloff, Taylor & Zafman LLP

Title: BISTABLE RESISTANCE VALUE ....
1st Named Inventor: Joshito JIN
Express Mail No.: EV612531356US

Sheet: 35/66

(310) 207-3800

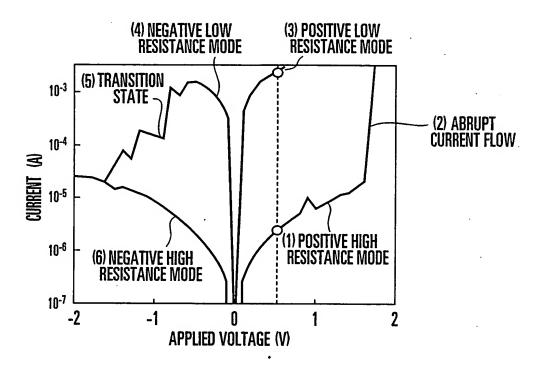


FIG. 64

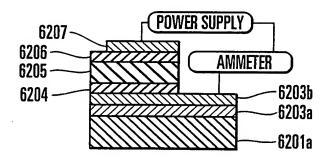


FIG. 65A

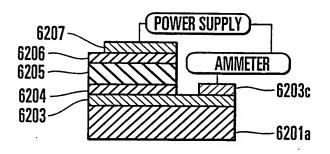


FIG. 65B

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE....
1st Named Inventor: Joshito JIN
Express Mail No.: EV612531356US

Sheet: 36/66

Docket No.: 96790P520

(310) 207-3800

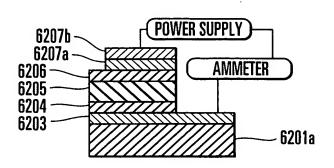


FIG. 65C

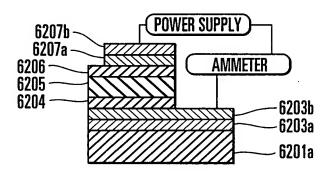


FIG. 65D

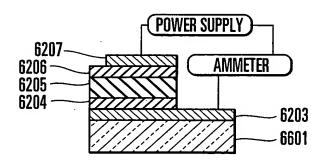


FIG. 66A

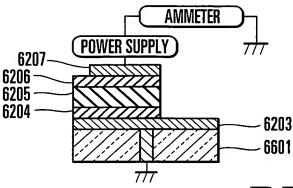


FIG. 66B

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US Sheet: 37/66

(310) 207-3800

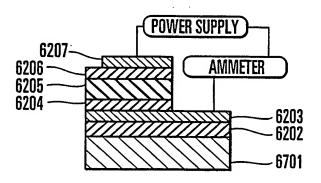


FIG.67A

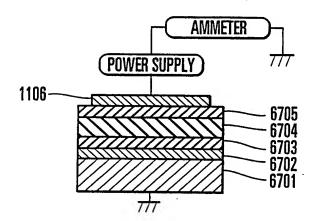
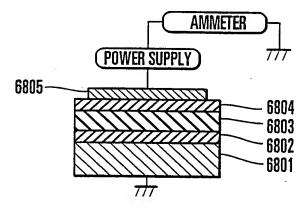


FIG.67B

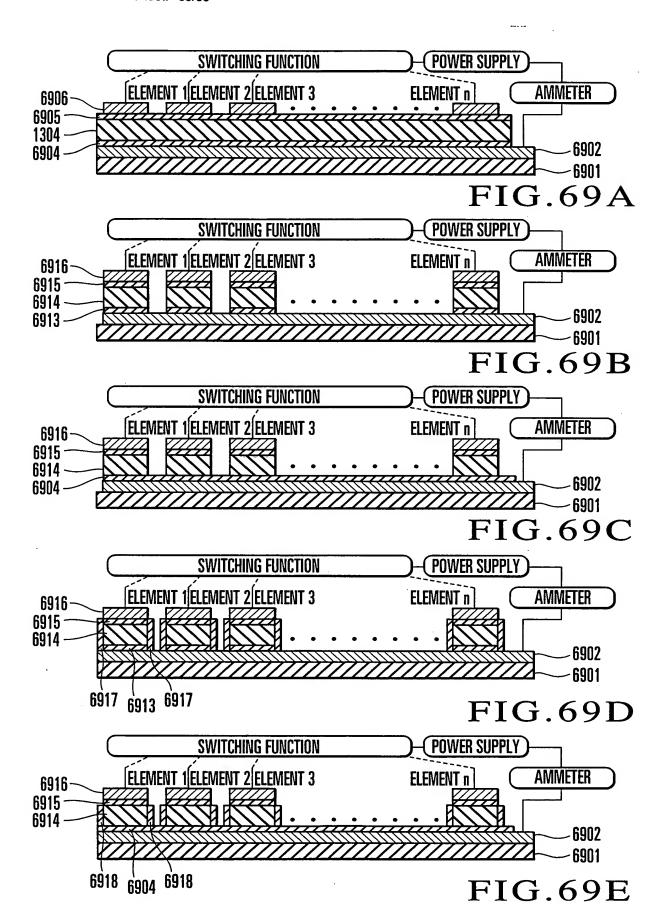


**FIG.68** 

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 38/66

(310) 207-3800



Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 39/66

(310) 207-3800

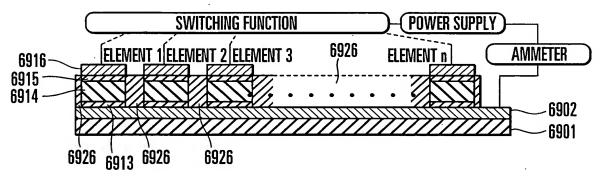


FIG.70

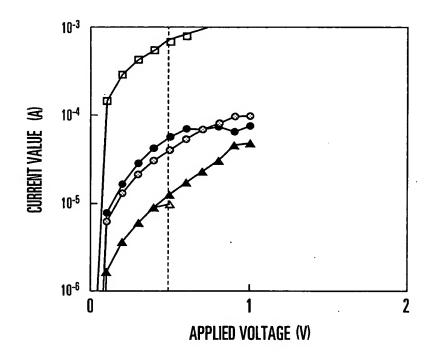
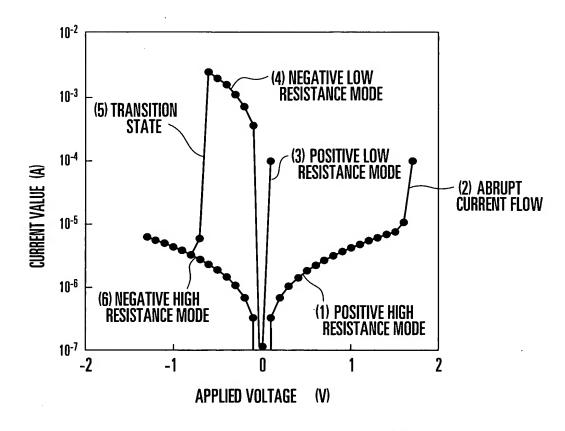


FIG.71

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 40/66

(310) 207-3800



**FIG.72** 

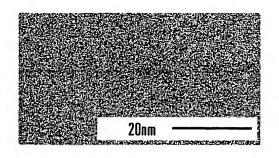
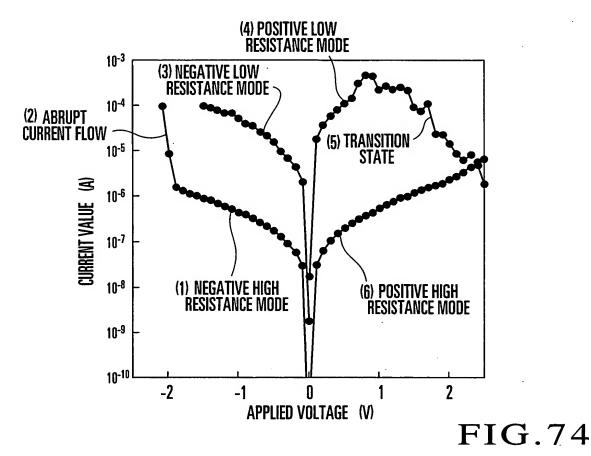


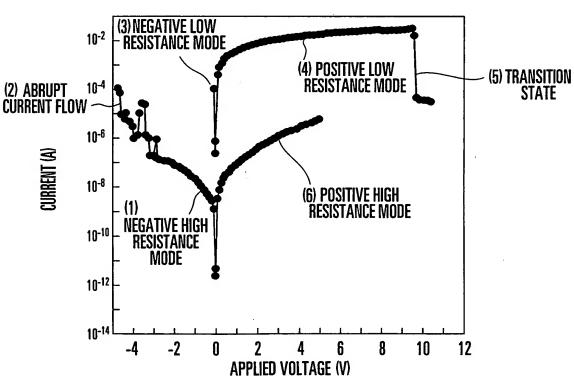
FIG.73

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 41/66

Docket No.: 96790P520



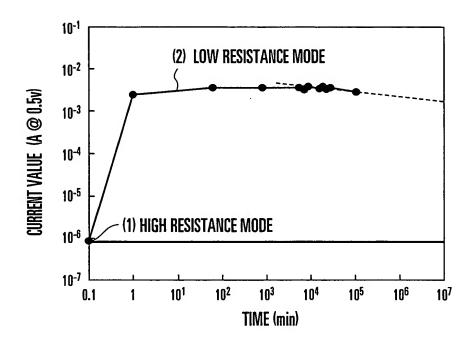


**FIG.75** 

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 42/66

Docket No.: 96790P520



**FIG.76** 

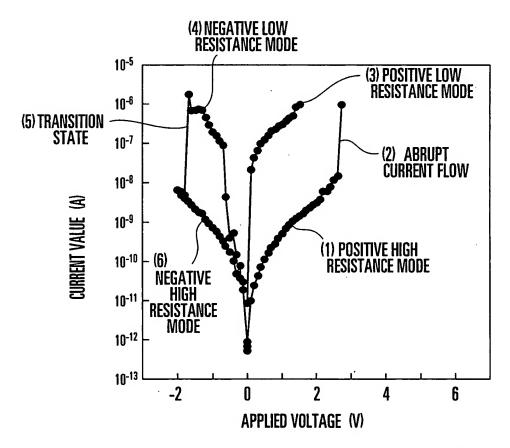


FIG.77

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 43/66

(310) 207-3800

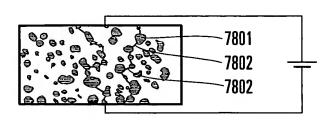


FIG. 78

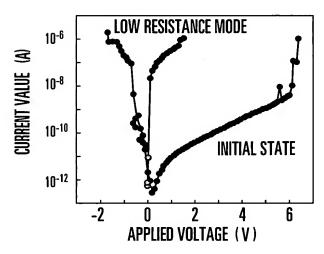


FIG. 79

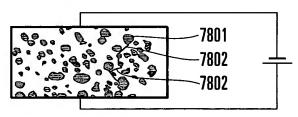


FIG. 80

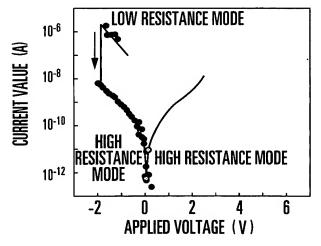


FIG. 81

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US

Sheet: 44/66

(310) 207-3800

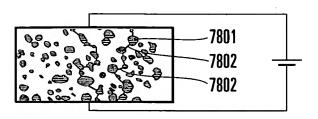


FIG. 82

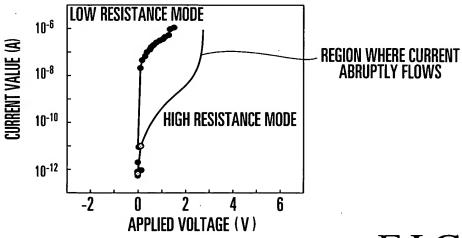


FIG. 83

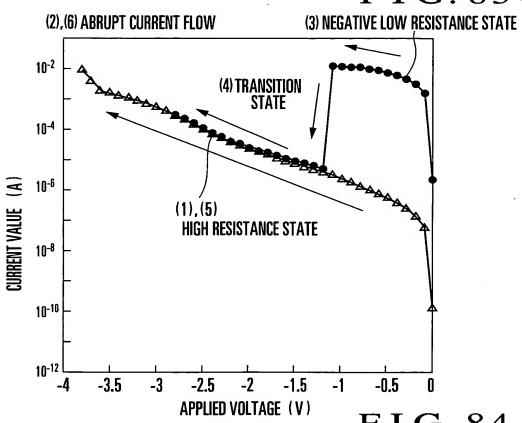
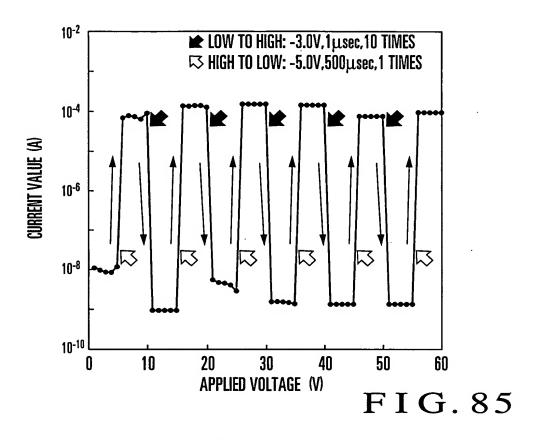


FIG. 84

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 45/66

(310) 207-3800



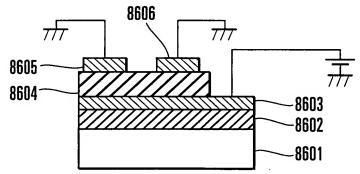


FIG. 86A

8605
8604
8602
8601

FIG. 86B

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 46/66

(310) 207-3800

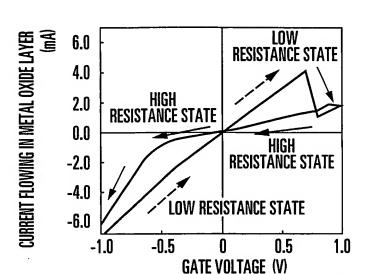


FIG. 86C

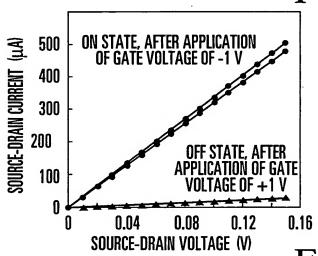


FIG. 87

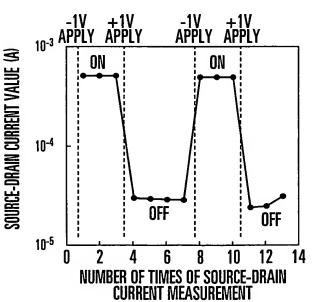
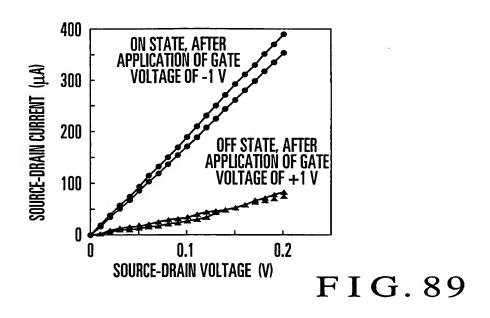


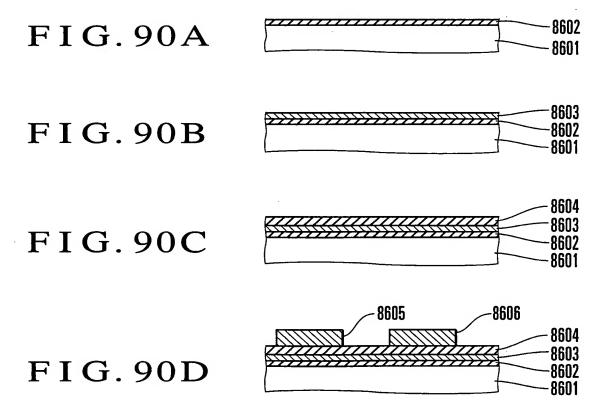
FIG. 88

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 47/66

(310) 207-3800





1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US Sheet: 48/66

Docket No.: 96790P520

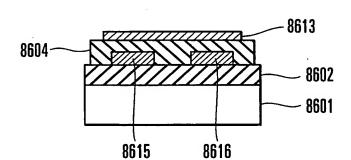


FIG. 91

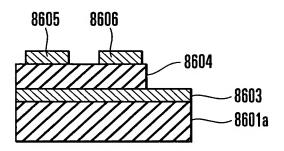


FIG. 92A

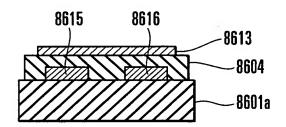


FIG. 92B

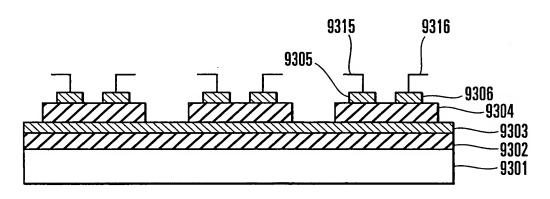


FIG. 93A

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE ....
1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US

Sheet: 49/66

Docket No.: 96790P520

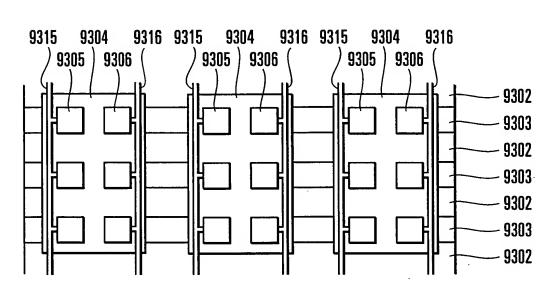


FIG. 93B

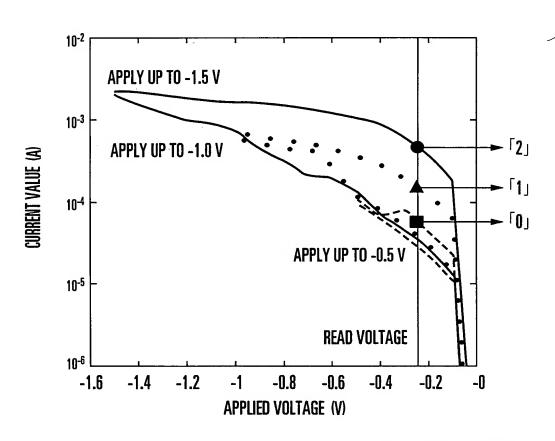


FIG. 94

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 50/66

(310) 207-3800

NUMBER OF PULSES	1	2	3	4	5						
PULSE VOLTAGE (V)	-3	+3	-3	-1.5	-3						
PULSE WIDTH (µsec)	10	10	10	10	10						
STATE	ſij	ر 0 ا	۲ <b>2</b> ا	[م]	「2」						

FIG. 95

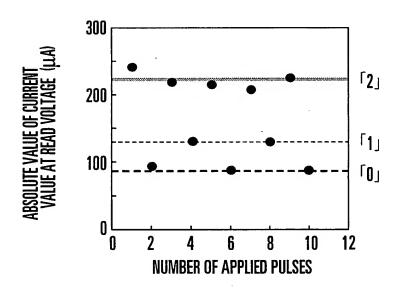


FIG. 96

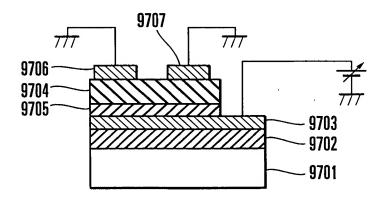


FIG. 97A

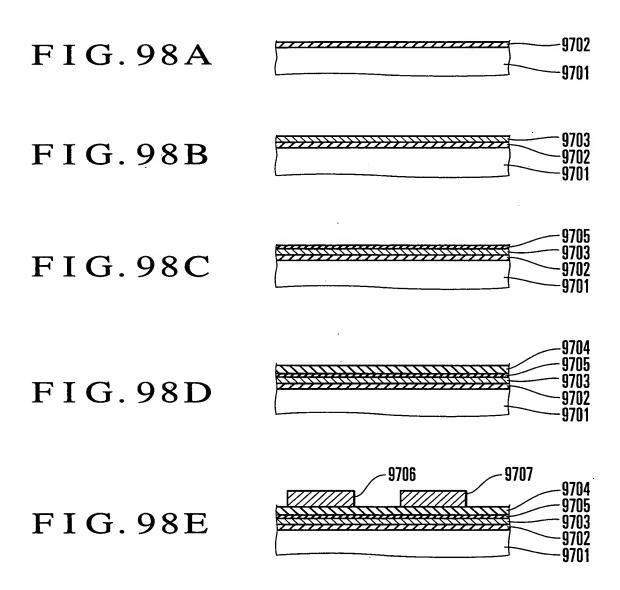
1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 51/66

(310) 207-3800

Docket No.: 96790P520

9706 9704 9705 9703 9702 9701 FIG. 97B



1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US Sheet: 52/66

(310) 207-3800

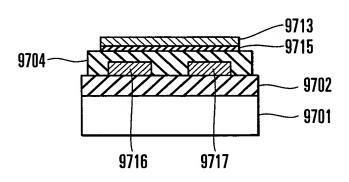


FIG. 99

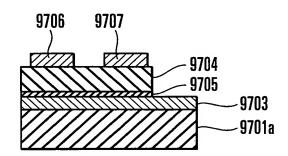


FIG. 100A

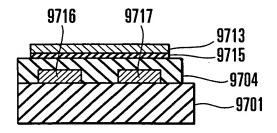
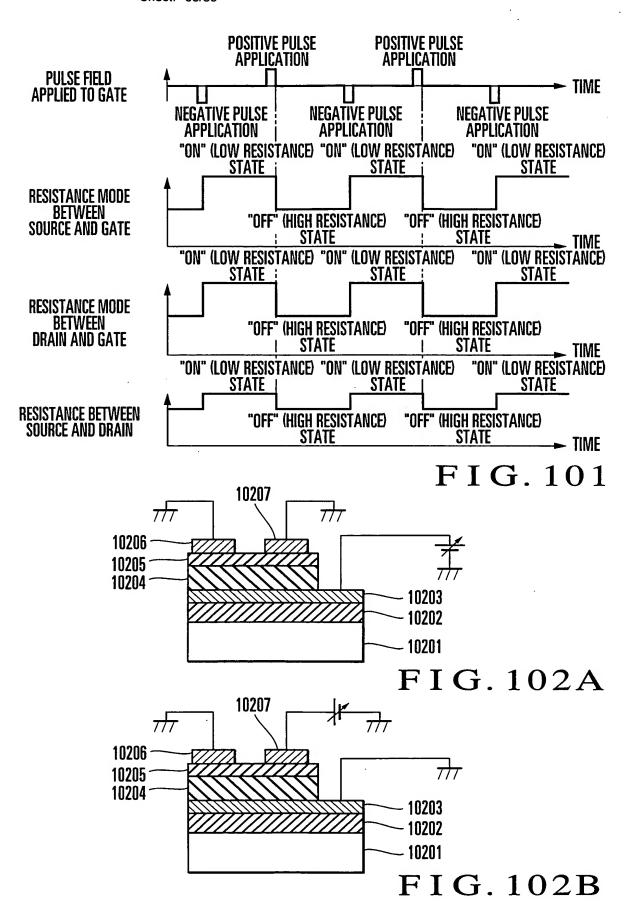


FIG. 100B

1st Named Inventor: Joshito JIN
Express Mail No.: EV612531356US

Sheet: 53/66

(310) 207-3800



1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US Sheet: 54/66

10204

10215

10216

10217

(310) 207-3800

Docket No.: 96790P520

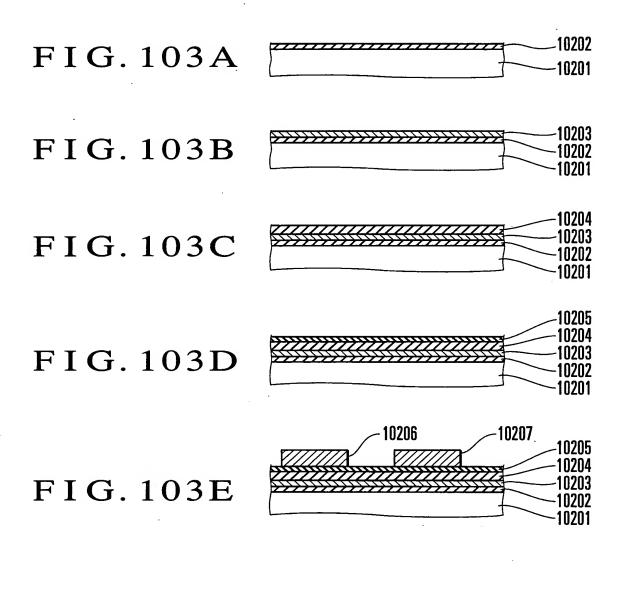


FIG. 104

10213

10215

- 10202

- 10201

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 55/66

(310) 207-3800

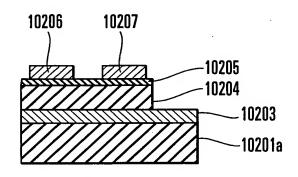


FIG.105A

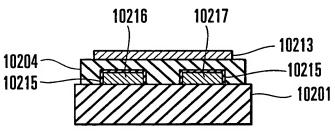


FIG.105B

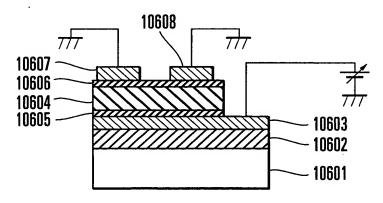


FIG.106A

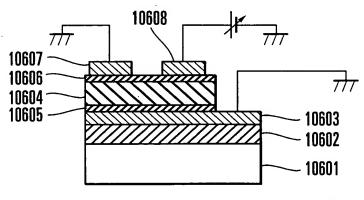


FIG.106B

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 56/66

(310) 207-3800

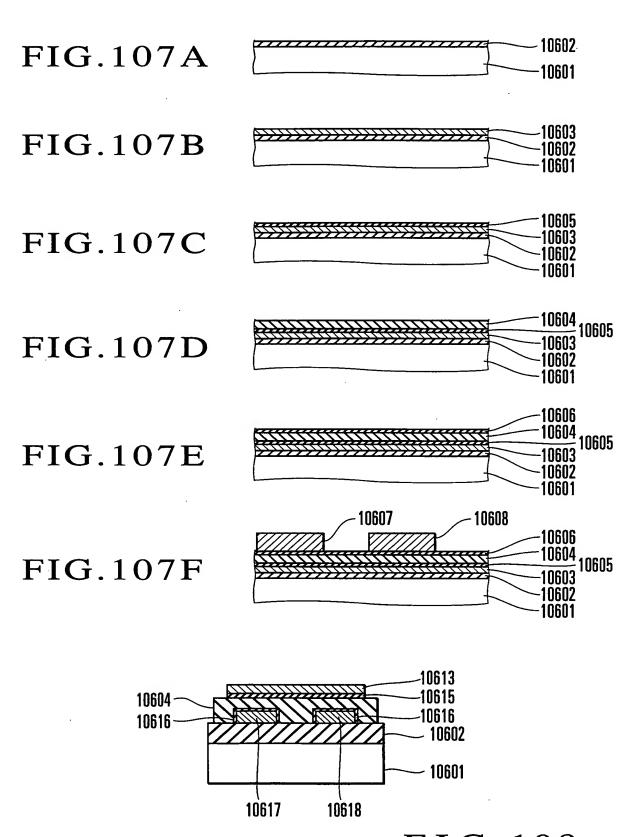


FIG. 108

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 57/66

(310) 207-3800

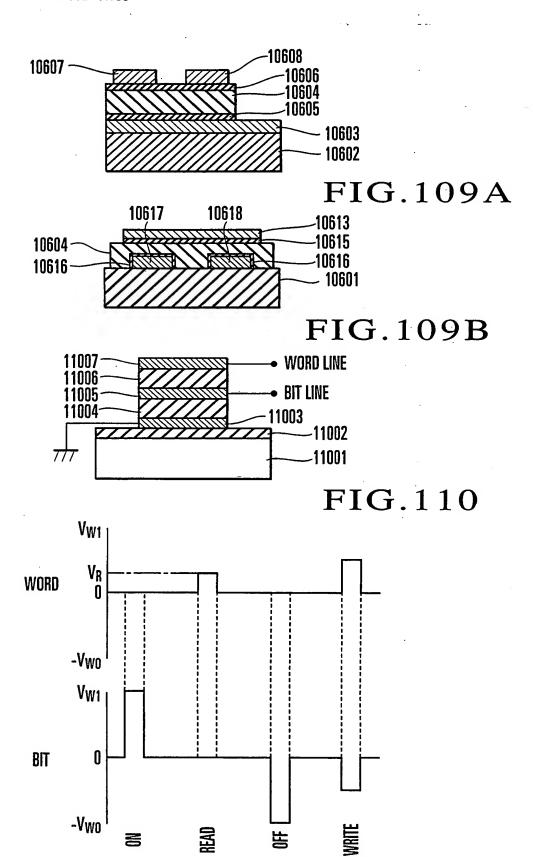


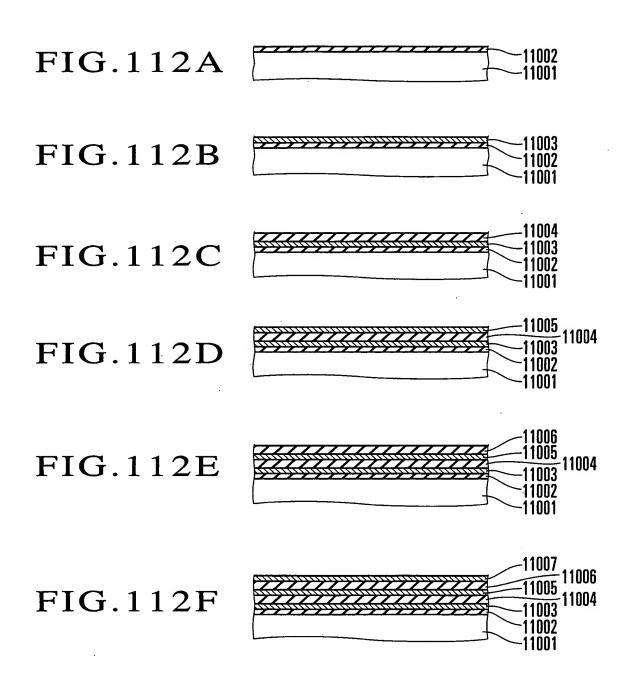
FIG.111

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE .... 1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US

Sheet: 58/66

(310) 207-3800



Blakely, Sokoloff, Taylor & Zafman LLP

Title: BISTABLE RESISTANCE VALUE....
1st Named Inventor: Joshito JIN
Express Mail No.: EV612531356US

Sheet: 59/66

(310) 207-3800

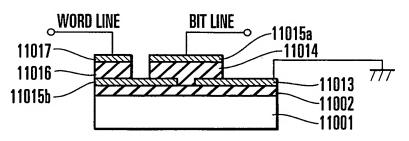


FIG.113A

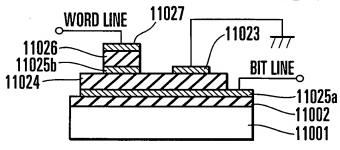


FIG.113B

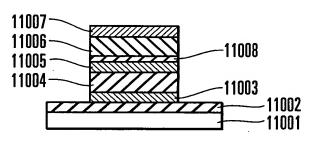


FIG.114A

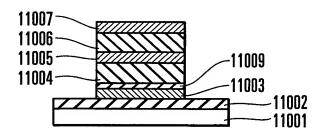


FIG.114B

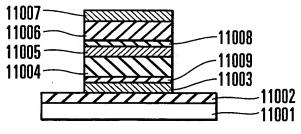
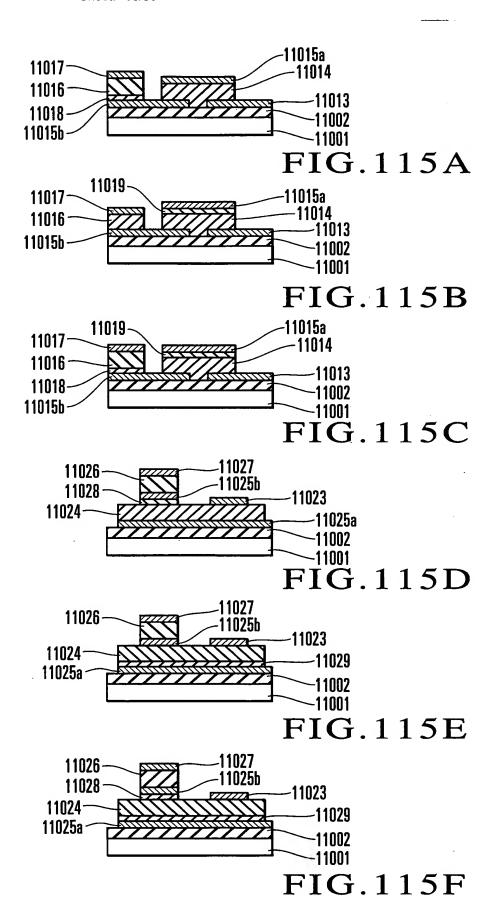


FIG.114C

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 60/66

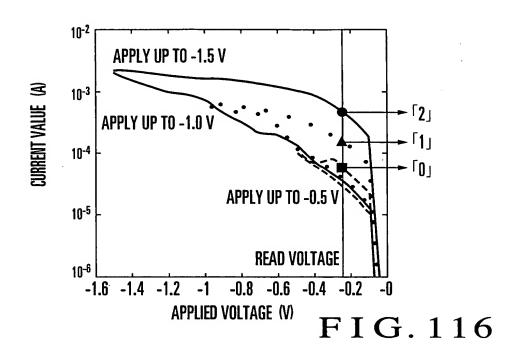
(310) 207-3800



1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 61/66

Docket No.: 96790P520



NUMBER OF PULSES	1	2	3	4	5						
PULSE VOLTAGE (V)	-3	+3	-3	-1.5	-3	<del></del>					
PULSE WIDTH (µsec)	10	10	10	10	10						
STATE	Г <b>1</b> ј	ال	「2」	Γ <b>1</b> ]	「2」						
				F	I	G.	1 1	17			

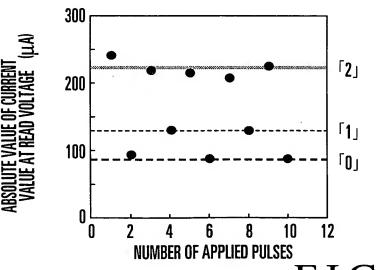


FIG. 118

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 62/66

Docket No.: 96790P520

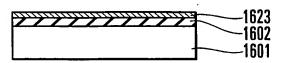


FIG. 119A

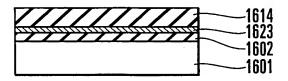


FIG. 119B

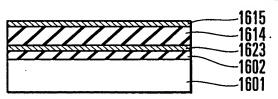


FIG. 119C

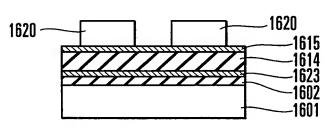


FIG. 119D

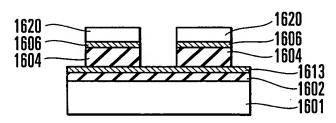


FIG. 119E

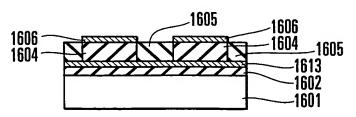


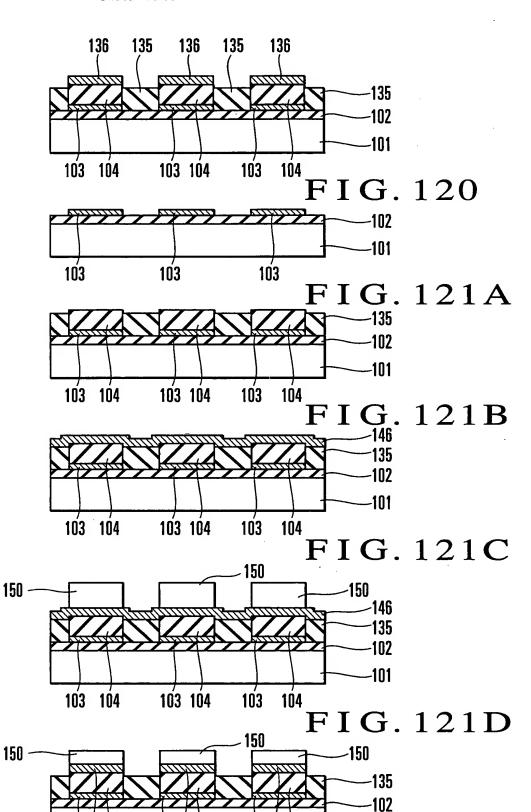
FIG. 119F

1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 63/66

(310) 207-3800

Docket No.: 96790P520



103 \ 104 136

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103 \ 104

136

-101

FIG. 121E

(310) 207-3800

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 64/66

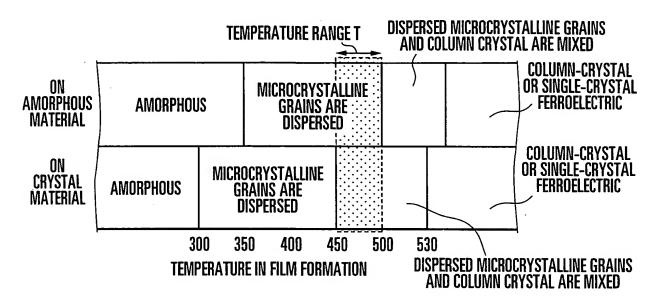


FIG. 122

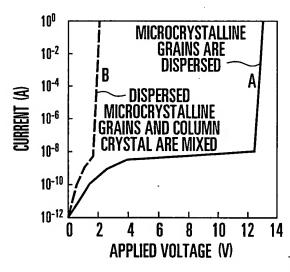


FIG. 123

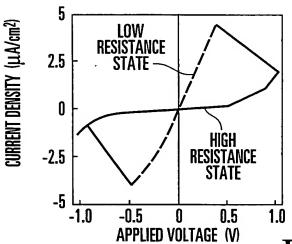


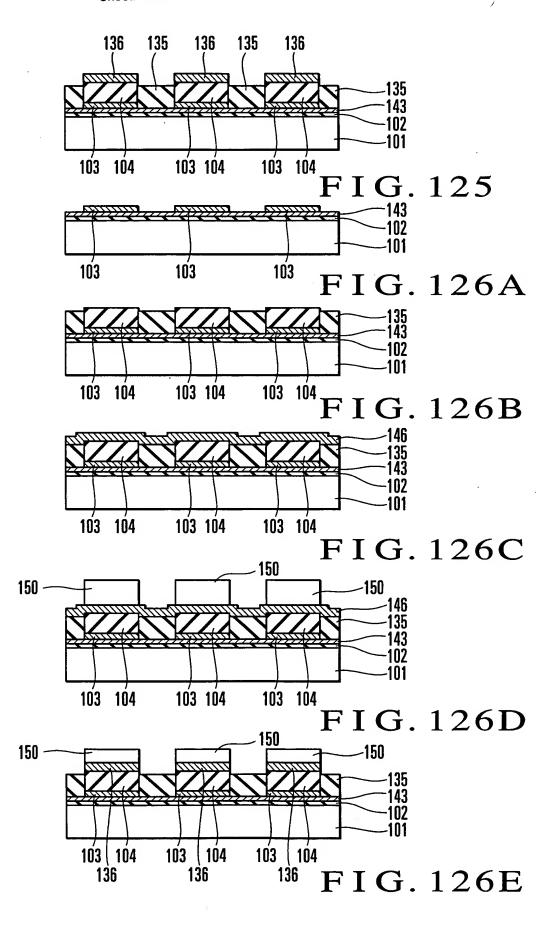
FIG. 124

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN

Express Mail No.: EV612531356US

Sheet: 65/66

(310) 207-3800



(310) 207-3800

Blakely, Sokoloff, Taylor & Zafman LLP Title: BISTABLE RESISTANCE VALUE.... 1st Named Inventor: Joshito JIN Express Mail No.: EV612531356US

Sheet: 66/66

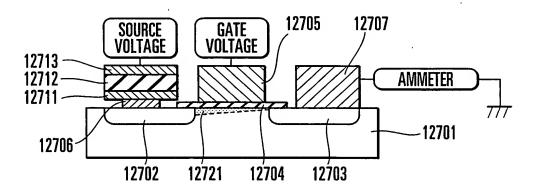


FIG. 127

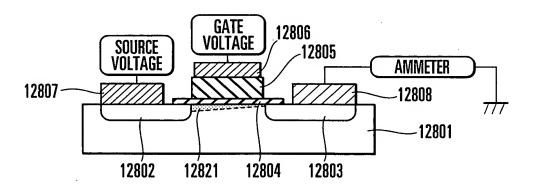


FIG. 128

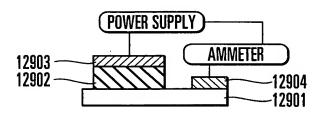


FIG. 129